

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700038-6

one case was a transparent incorporation of the transplant obtained when corneas from cats, pigs, and dogs were transplanted to rabbits. The avian corneas took root in 21 cases; the transplant was transparent in 6 cases. Particularly favourable results were obtained in the transplanting of goose corneas. They took root in 9 of 13 cases; under these conditions 3 cases were transparent. (S)

EXCERPTA MEDICA Sec 12 Vol 13/8 Ophthalmology Aug 59

1254. HETEROGENOUS TRANSPLANTATION OF CORNEA (Russian text) -

Nesterov A. P. - OFTALM. ZH. 1957. 6 (337-340)
Partial penetrating keratoplasty was conducted on rabbits. The cornea of dogs, cats, pigs, geese, and chickens served as keratoplastic material. Before the operations the eyes of the donors were preserved in the refrigerator at 2-4° above zero for 1-15 days. Cutting out of discs of donor and recipient was accomplished with Filatov Martsinkovskii trephines with a crown 4 and 4.05 mm. in diameter. The transplant was fastened with nictitating membrane or with a conjunctival flap. In a number of cases fixation was not performed. Seventy-six operations in all were performed. Operative complications in the form of wounding of the crystalline lens took place in 3 rabbits. The post-operative courses were remarkably different. Most often the reactive phenomena were moderate and the operated eye became completely calm toward the end of a month. In 2 rabbits the transplant broke down completely in the first few days; in 4 cases a partial breakdown was observed. In not

NESTEROV, A.P., aspirant

Separation of the retina in glaucoma. Vesn. oft. no.3:38 Mr-Je '55.
(MIRA 8:6)

1. Iz glaznoy kliniki (dir. -prof. T.I.Yeroshevskiy) Kuybyshevskogo instituta.
(GLAUCOMA, complications,
retinal detachment)
(RETINAL DETACHMENT, complications,
glaucoma)

NESTEROV, A.P., inzh.

Study of a multirope hoist with a differential reducing gear. Izv.
vys.ucheb.zav.; gor.zhur. 5 no.9:130-137 '62. (MIKA 15:11)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy
institut imeni Artyoma. Rekomendovana kafedroy gornoj mekhaniki,
gornoj elektrotehniki i stroitel'noj mekhaniki.
(Mining hoisting—Electromechanical analogies) (Gearing)

NESTEROV, A.P., inzh.

Differential equations of the movement of a multirope hoist
with a spring-mounted reducing gear as a flexible mechanical
system. Izv. vys. uch. zav.; gor. zhur. 5 no.6:166-173 '62.
(MIRA 15:9)

1. Dnepropetrovskiy ordena Trudovogo Znameni gornyy
institut imeni Artema. Rekomendovana kafedroy gornoj mekhaniki.
(Mine hoisting)

NESTEROV, A.P.

Experimental study of a multirope hoist at the Butovskaya-Glubokaya Mine. Trudy MakNII 12: Vop. gor. elektromekh. no.4:374-378 '61. (MIRA 16:6)

(Donets Basin-Mine hoisting--Testing)

NESTEROV, A.N., SYSIN, A.N., CERKE, A.A., KARLIK, L.N. & KHATENEVER, L.M.

(Nesterov, A.N., Sysin, A.N., Cerke, A.A., Karlik, L.N.) & Khatenever, L.M.
(Eds.) "Epidemiology, Clinical Features, Treatment and Prophylaxis of
Tularæmia." Medgiz, Moscow, 1946.

Note: Those names given in brackets are collaborators who are not members of
the Tarasevich Institute.

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NESTEROV, A.M., inzh.

Redesigning of 25-E-1 and EP-2-400-3 ejectors for operation at
7 atm. steam pressure, Energetik 12 no.7(10-11) Jl 164.
(MIRA 17:9)

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NESTEROV, A.M., inzh.

Saving bronze. Mekh. stroi. 17 no. 11:27 N '60. (MIRA 13:11)
(Bronze)

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NESTEROV, Aleksandr Kostantinovich, insh.,; YAKOVLEV, N., red.

[...stora of construction] Mastera stroitel'nogo proizvod-
stva. Moscow, Mosk. rabochiy, 1966. 110 p. (MIRA 16.10)

NESTEROV, Aleksandr Konstantinovich; YARTSEV, N., red.; KUZNETSOVA, A.,
tekhn. red.

[Southwest; experience in planning and developing the south-
western district of Moscow] Iugo-zapad; iz opyta planirovki i
zastroiki Iugo-zapadnogo raiona Moskvy. Moskva, Mosk., rabo-
chii, 1963. 106 p. (MIRA 16:4)
(Moscow---Construction industry)

NESTEROV, Aleksandr Konstantinovich; YARTSEV, N., red.; KUZNETSOVA, A.,
tekhn.red.

[Man of creative initiative] Chelovek tvorcheskoi initsiativy.
Moskva, Mosk.rabochii, 1961. 37 p. (MIRA 14:4)
(Lebedev, Anatolii Pavlovich)

NESTEROV, Aleksandr Konstantinovich; LARTSEV, N., red.; PAVLOVA, S.,
tekhn. red.

[Master of rapid calcination] Master skorostnogo obzhiga.
Moskva, Mosk.rabochii, 1960. 28 p. (MIRA 14:1)
(Cement kilns)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700038-6

MIL'KOV, F.M.; NESTEROV, A.I.; AKHIVITSINA, N.I.; BEHDNIKOVA, Z.P.

Morphological structure and the products of the efflorescent layer in
ravines in the Central Chernozem Region. Nauch. zap. Ver. otd. Geol.
obshva 17-23 (6).

(CIA 1749)

L 37753-66

ACC NR: AP6028242

SOURCE CODE: UR/0220/66/035/002/0193/0199

AUTHOR: Nesterov, A. I.; Gogotov, I. S.; Kondrat'yeva, Ye. N.

Ye

ORG: Soil Biology Faculty, Moscow State University im. M. V. Lomonosov (Biologo-pochvennyy fakultet Moskovskogo gosudarstvennogo universitet)

TITLE: Effect of light intensity on utilization of carbon compounds by photosynthesizing bacteria

SOURCE: Mikrobiologiya, v. 35, no. 2, 1966, 193-199

TOPIC TAGS: light biologic effect, photosynthesis, bacteria, carbon

ABSTRACT: The shape of light curves showing the uptake by purple and green bacteria of C¹⁴ from various compounds (bicarbonate, acetate, ethane) depends on the species of organism, source of carbon, and composition of the medium. The saturating intensity of light ranges from 7 to 60·10³ erg/cm²/sec. Purple and green bacteria capable of autotrophic growth (Rhodopseudomonas sp., Chloropseudomonas ethylicum, and Chlorobium thiosulfatophilum) take up more carbon from acetate than from CO₂ in the 7 to 150·10³ erg/cm²/sec interval. Regardless of the light intensity, Rhodopseudomonas sp., unlike C. ethylicum, takes up considerable quantities of CO₂ on a medium with acetate only if sulfide is present. Changes in light intensity seem to affect the way some carbon compounds are utilized by photosynthesizing bacteria. Orig. art. has: 3 figures. [JPRS: 36,932]

SUB CODE: 06 / SUBM DATE: 15Jul65 / ORIG REF: 011 / OTH REF: 014

LS

Card 1/1

UTC: 576.8.095.14;576.851.12

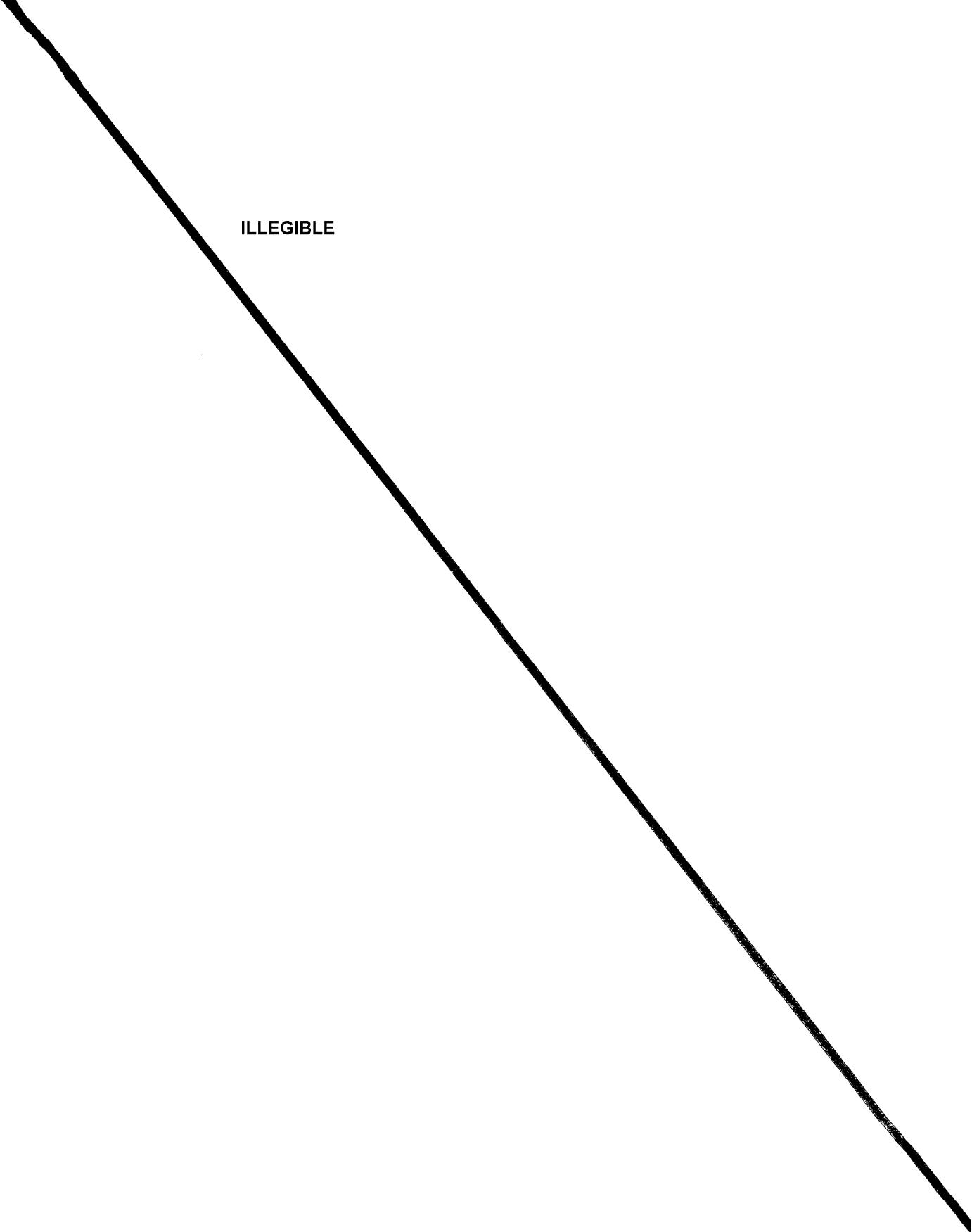
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HEATMILL, JOHN (John) (cont)

Theoretical and clinical basis of the relationship between fever and the metabolism. Part I. New concepts of the relationship between fever and metabolism.

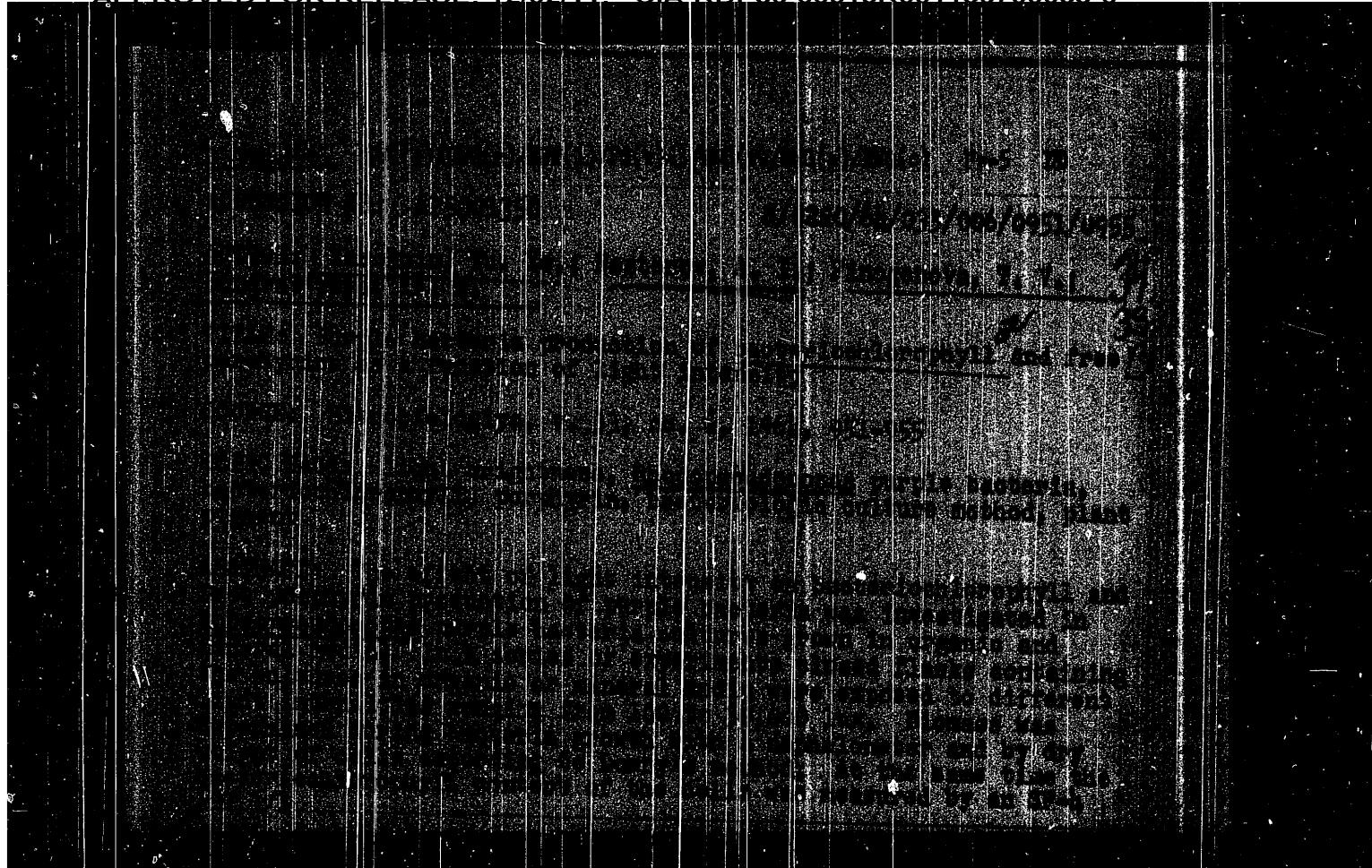
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NESTEROV, Anatoliy Innokent'yevich, prof.; YUKHNOVSKAYA, S. I.,
red.; PAININA, N.D., tekhn. red.

[Rheumatic fever] Revmatizm. Moskva, Medgiz, 1963.
40 p. (MIRA 16:11)

i. Deystvit'nyy chlen AMN SSSR (for Nesterov).
(RHEUMATIC FEVER)

NESTEROV, A.I., prof.; ASTAPENKO, M.G., prof.

Recommendations for the planning of research on the problem
"Rheumatic fever and diseases of the joints" for 1963-1964.
Vop. revm. 2 no.4:78-79 O-D*62 (MIRA 17:4)

1. Predsedatel' Vsesoyuznogo antirevmaticheskogo komiteta,
deystvitel'nyy chlen AMN SSSR (for Nesterov). 2. Sekretar'
Vsesoyuznogo antirevmaticheskogo komiteta (for Astapenko).

NESTEROV, A. I.

"On Special Clinical Variations for Infectious Allergic Polyarthritis."

report presented at the 9th interim session of the American Rheumatism Association,
Richmond, Virginia, 6-8 Dec 1962.

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700038-6

NESTEROV, A.I.

All-Union Rheumatology Conference in Moscow, January 23-27, 1961.
(SINA 15!2)
Vest. AMN SSSR 16 no. 11:93-95 '61.
(RHEUMATISM--CONGRESSES)

NESTEROV, A.I., prof. (Moskva)

Use of steroid hormones in the treatment of patients with rheumatic fever. Sov.med. 25 no.1:3-21 Ja '61. (MIRA 143)

1. Deystvitel'nyy chlen AMN SSSR.
(ADRENOCORTICAL HORMONES)

(RHEUMATIC FEVER)

NESTEROV, A.I., prof.

Soviet rheumatology -- principal stages of development, tasks
and perspectives. Cesk.zdravot.9 no.3:146-156 Mr '61.

1. Radny clen ALV SSSR. Revmatologicky ustav ministerstva
zdravotnictvi RSFSR.
(RHEUMATISM prev & control)

NESTEROV, A.I., prof.; ASTAPENKO, M.G., prof.

Report on the activity of the All-Union Committee for the Control
of Rheumatic Fever (1956 to 1960). Vop.revm. 1 no.3:93-94 Jl-S
'61. (MIRA 16:4)

1. Predsedatel' Vsesoyuznogo komiteta po izucheniyu revmatizma -
deystritel'nyy chlen AMN SSSR (for Nesterov). 2. Sekretar'
Vsesoyuznogo komiteta po izucheniyu revmatizma (for Astapenko).
(RHEUMATIC FEVER)

NESTEROV, A.I., prof. (Moskva)

Each physician should be armed with a specific plan for the
control of rheumatic fever. Vop.revm. 1 no.3:3-6 Jl-S '61.

(MIRA 16:4)

1. Deystvit'nyy chlen AMN SSSR.
(RHEUMATIC FEVER)

NESTEROV, A.I., prof.; SACHKOV, V.I., kand.med.nauk; AKULININA, E.Ya.
(Moskva)

Rheumatology in England. Vop.revm. 1 no.2:70-80 Ap-Je '61.
(MIRA 16:4)

1. Deystvitel'nyy chlen AMN SSSR (for Nesterov).
(GREAT BRITAIN--RHEUMATIC FEVER)

NESTEROV, A.I., prof. (Moskva)

Basic stages in the development of Soviet rheumatology and its
future and problems. Terap.arkh. 32 no.8:15-26 Ag '60.
(MIRA 13:11)

1. Deyatvitel'nyy chen AMN SSSR.
(RHEUMATIC FEVER)

NESTEROV, A.I. prof. (Moskva)

Clinical, immunological, and biochemical methods for determining
the activity of rheumatic fever. Sov.med. 24 no.1:22-33 Ja '60.
(MIRA 13:5)

1. Deystvit'nyy chlen AMN SSSR.
(RHEUMATIC FEVER)

NESTEROV, A.I., prof.

Fourth European Rheumatology Congress. Vest. AMN SSSR 15 no.4:75.
80 '60. (MIRA 1:5)

1. Deystvit'nyy chlen AMN SSSR.
(RHEUMATISM—CONGRESSES)

NESTEROV, A.I., prof. (Moskva)

Scientific and organizational aspects of the prevention of
rheumatic fever. Terap.arkh. 31 no.7:3-16 J1 '59.
(MIRA 12:11)

1. Deystvitel'nyy chlen AMN SSSR.
(RHEUMATISM, prev. & control)

NESTEROV, A.I., prof, (Moskva)

Problem of single terminology for joint diseases. Klin. mei. 37 no.5:
15-18 My '59. (MIRA 12;8)
(JOINTS, dis.
nomenclature (Rus))

NESTEROV, A.I., prof.

Problem of a unified terminology for diseases of the joints. Terap. arkh. 31 no.5:45-48 My '59. (MIRA 12:7)

1. Predsedatel' Vsesoyuznogo komiteta po izucheniyu revmatizma i bolezney sostavov pri AMN SSSR.
(JOINTS, dis.
terminol. problem (Rus))

NESTEROV, A.I., prof. (Moskva)

Infectious nonspecific polyarthritis as one of the principal forms
of collagen diseases in internal medicine. Terap. arkh. 31 no.5:
19-29 My '59. (MIRA 12:?)

1. Deystvitel'nyy chlen AMN SSSR.
(ARTHRITIS, RHEUMATOID
as one of principal types of collagen dis. in internal
med. (Rus))

NESTEROV, A.I.---- (continued) Card 3.

16. Direktor Instituta fiziologii AMN SSSR (for Chernigovskiy).
17. Direktor Instituta terapii AMN SSSR (for Myasnikov). 18. Direktor Gosudarstvennogo izdatel'stva meditsinskoy literatury (for Mayevskiy). 19. Vitse-prezident AMN SSSR (for Davydovskiy).
20. Ministr zdravookhraneniya SSSR (for Kurashov). 21. Direktor Instituta infektsionnykh bolezney AMN SSSR (for Bogdanov).
22. Chlen-korrespondent AN BSSR; predsedatel' Uchenogo meditsinskogo soveta Ministerstva zdravookhraneniya BSSR (for Bronovitskiy). 23. Predsedatel' Uchenogo meditsinskogo soveta Ministerstva zdravookhraneniya USSR (for Chebotarev).
(MEDICINE)

NESTEROV, A.I.----(continued) Card 2.

2. Chleny-korrespondenty AMN SSSR (for Dolgo-Saburov, Chirikov, Zhdanov, Biryukov, Sokolova-Ponomareva, Batkis, Shmelev, Molchanova, Blokhin, Ioffe, Bogdanov). 3. Direktor Instituta gerontologii AMN SSSR (for Gorev). 4. Direktor Instituta farmakologii i khimioterapii AMN SSSR (for Zalusov). 5. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (VASKhNIL); direktor Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR (for Muromtsev). 6. Direktor Instituta po izucheniyu poliomiyelita AMN SSSR (for Churakov). 7. Direktor Instituta eksperimental'noy meditsiny AMN SSSR (for Biryukov). 8. Direktor Instituta obshchey i kommunal'noy gigiyeny AMN SSSR (for Litvinov). 9. Direktor Instituta pediatrii AMN SSSR (for Sokolova-Ponomareva). 10. Direktor Instituta virusologii AMN SSSR (for Kosyakov). 11. Direktor Instituta tuberkuleza AMN SSSR (Shmelev). 12. Direktor Instituta grudnoy khirurgii AMN SSSR (for Busalov). 13. Direktor Instituta pitaniya AMN SSSR (for Molchanova). 14. Direktor Instituta eksperimental'noy i klinicheskoy onkologii AMN SSSR (for Blokhin). 15. Direktor Instituta khirurgii AMN SSSR (for Viahnevskiy).

NESTEROV, A.I. (Moskva); TUSHINSKIY, M.D. (Leningrad); GOREV, N.N. (Kiyev);
DOLGO-SABUROV, B.A. (Leningrad); ZAKUSOV, V.V. (Moskva); MIROMTSEV, S.N.
(Moskva); CHUMAKOV, M.P. (Moskva); ZHDANOV, V.M., prof. (Moskva);
NEGOVSKIY, V.A., prof. (Moskva); BIRYUKOV, D.A. (Leningrad);
LITVINOV, N.N., prof. (Moskva); SOKOLOVA-PONOMAREVA, O.D. (Moskva);
KUPALOV, P.S. (Leningrad); BATKIS, G.A. (Moskva); KOSYAKOV, P.N.,
prof. (Moskva); SHMELEV, N.A. (Moskva); BUSALOV, A.A., prof.
(Moskva); MOLCHANOVA, O.P. (Moskva); STRASHUN, I.D.; BLOKHIN, N.N.
(Moskva); PREOBRAZHENSKIY, B.S. (Moskva); VISHNEVSKIY, A.A. (Moskva);
CHERNIGOVSKIY, V.M. (Moskva); PAVLOVSKIY, Ye.N., akademik (Leningrad);
MYASNIKOV, A.L. (Moskva); VINOGRADOV, V.N. (Moskva); MAYEVSKIY, V.I.;
DAVYDOVSKIY, I.V. (Moskva); IOFFE, V.I. (Moskva); KURASHOV, S.V.;
ANOKHIN, P.K. (Moskva); BOGDANOV, I.D. (Kiyev); ZIL'BER, L.A.
(Moskva); BRONOVITSKIY, A.Yu.; CHERBOTAREV, D.F., prof.

Debate on the address by Professor V.V. Parin, academician
secretary of the Academy of Medical Sciences of the U.S.S.R.;
abridged comments by members of the Academy of Medicine and
the directors of institutes. Vest. AMN SSSR 14 no.8:19-31
'59. (MIRA 12:11)

1. Dejstvitel'nyye chleny AMN SSSR (for Nesterov, Tushinskiy,
Gorev, Zakusov, Kupalov, Strashun, Preobrazhenskiy, Vishnevskiy,
Chernigovskiy, Myasnikov, Vinogradov, Anokhin, Zil'ber).
(Continued on next card)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700038-6

NESTEROV, A.I.

"The Attempt of a Clinical Classification of Rheumatoid Polyarthritides."

presented at the 4th European Rheumatological Congress, Istanbul, Turkey, 22-25 Sep 1971

NESTEROV, A.I., prof.

Problems in the etiology, therapy, and prevention of rheumatic fever.
Klin.med. 36 no.5:3-17 My '58 (MIHA 11:7)

1. Deyativitel'nyy chlen AMN SSSR.
(RHEUMATISM,
etiol. ther. & prev., review(Rus))

NESTEROV, A.I., prof.

International symposium on the pathogenesis of nonspecific infectious polyarthritis. Vest. AMN SSSR 13 no.12:63-66 '58.
(MIRA 12:1)

1. Deystvitel'nyy chlen AMN SSSR.
(BRUSSELS--ARTHRITIS, RHEUMATOID--CONGRESSES)

NESTEROV, A.E.

NESTEROV, A.E. (Tbilisi)

Spirograph for graphic kymographic registration of respiratory
volume. Vistol, shur. 43 no.10:997-1000 O '57. (MIRA 11:1)
(KYMOGRAPHY,

spirograph for graphic kymographic registration of
resp. volume (Rus))
(RESPIRATION,

volume, spirograph for graphic kymographic registration
(Rus))

NESTEROV, A.I., prof.; LEVLEVA, L.V., kand.med.nauk; SIGIDIN, Ya.A. (Moskva)

So-called collagen diseases. Terap.arkh. 29 no.2:3-17 '57.
(MIRA li:1)

1. Deystvitel'nyy chlen AMN SSSR (for Nesterov)
(COLLAGEN DISEASES,
review (Rus))

MESTEROV, Anatoliy Innokent'yevich, professor; USPENSKAYA, N.V., redaktor;
GUBIN, M.I., tuktmicheskijy Fedaktor.

[Rheumatism, its treatment and prevention] Revmatizm, ego lechenie
i preduprezhdenie. Moskva, Izd-vo "Znanie," 1957. 23 p. (Vsesoiuznoe
obshchestvo po rasprostraneniu politicheskikh i nauchnykh znanii.
Ser.8, no.16).
(MLRA 10:6)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR(for
Mesterov).

(RHEUMATISM)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700038-6

NESTEROV, Anatoliy

"Neurogenic Factors in Pathogenesis and Clinical Features of Rheumatism,"
paper submitted at Ninth International Congress of International League Against
Rheumatism, Toronto, Canada, 23-28 Jun 57.

C-3,800,141

NESTEROV, A.I.

Health resort therapy for diseases of the cardiovascular system.
Vop.kur.fizioter. i lech.fiz.kul't. 21 no.4:5-19 O-D '56. (MLRA 9:12)

1. Zaveduyushchiy fakul'tetskoy terapevticheskoy klinikoy II Moskovskogo meditsinskogo instituta.

(HEALTH RESORTS, WATERING PLACES, ETC.)
(CARDIOVASCULAR SYSTEM--DISEASES)

NESTEROV, A.I.

Scientific research plan of institutions of the Academy of Medical Sciences of the U.S.S.R. for 1956-60. Vest.AMN SSSR 11 no.3:3-21
'56. (MIRA 9:9)

1. Vitse-prezident AMN SSSR
(RESEARCH,
med. in Russia, plans for 1956-60 (Rus))

Nesterov, A.I.

KATS, A.I., podpolkovnik meditsinskoy sluzhby, kandidat biologicheskikh nauk;
NESTEROV, A.I., podpolkovnik meditsinskoy sluzhby

Apparatus for checking the air in blood transfusions. Voen.-med.zhur.
no.9:87-88 S '56. (MIRA 10:3)
(BLOOD—TRANSFUSION) (PHYSIOLOGICAL APPARATUS)

NESTEROV, A.I., podpolkovnik meditsinskoy sluzhby; KATS, A.I., podpolkovnik meditsinskoy sluzhby, kandidat biologicheskikh nauk

Sectional field rack for blood ampullae. Voen.-med. zhur. no.19;
82 o '55. (MIRA 9:10)
(BLOOD--TRANSFUSION)

NESTEROV, A.I., professor

How to improve and preserve one's health. Zdorov'e 2 no.7:5-6 Jl '56.
(MLR 9:8)

1. Vitse-president Akademii meditsinskikh nauk SSSR.
(HYGIENE)

EXCERPTA MEDICA Sec 19 Vol 2/11 Rehabilitation Nov 59

2384. Spa sanatorium treatment of patients with cardiovascular disorders
(Russian text) NESTEROV A. I. *Topl. Kliniki*, 1956, 1 (5-19)

Spa treatment requires from the body an adaptation of various physiological mechanisms that are deranged in many patients suffering from disorders of the cardiovascular system. Therefore, spa treatment (bathnological procedures, mud baths) are contraindicated in the following conditions: (1) essential hypertension with advanced arteriosclerotic changes in the coronary vessels and the cerebral and renal vessels; (2) advanced cardiosclerosis (stenocardia, heart block, circulatory failure); (3) myocardial infarction; (4) angina of effort and progressive coronary disease; (5) recent history of rheumatic heart disease; (6) mitral stenosis, incompetence of the aortic valves, and combined valvular disease. Patients suffering from any of the above-mentioned disorders should be referred to cardiological sanatoria near the town. Spa treatment may be recommended to patients with essential hypertension, grades I and I-II, with moderate circulatory failure, with a not far-advanced coronary disease, and with cardiovascular neuroses. The latter do well at seaside resorts (south coast of the Crimea). (S)

NESTEROV, A. I.

BAKULEV, A.N., glavnnyy redaktor; ANICHKOV, N.N., redaktor; BOLDYREV, T.Ye., redaktor; BRUSILOVSKIY, L.Ya., redaktor; BYKOV, K.M., redaktor; VASIL'ENKO, V.Kh., redaktor; VINOGRADOV, N.A., redaktor; GRASHEVSKIY, N.I., redaktor; DAVYDOVSKIY, I.V., redaktor; ZDRODOVSKIY, P.F., redaktor; KAVETSKIY, R.Ye., redaktor; KOCHERGIN, I.G., redaktor; KROTKOV, F.G., redaktor; KUPRIYANOV, P.A., redaktor; LEBEDINSKIY, A.V., redaktor; MALINOVSKIY, M.S., redaktor; MAN'KOVSKIY, B.N., redaktor; NESTEROV, A.I., redaktor; ORBELI, L.A., redaktor; PAVLOVSKIY, Ye.N., redaktor; SEVERIN, S.Ye., redaktor; SKRYABIN, K.I., redaktor; SMIRNOV, Ye.I., redaktor; TIMAKOV, V.D., redaktor; TUR, A.F., redaktor; SHABANOV, A.N., redaktor

[Great Medical Encyclopedia] Bol'shaya meditsinskaya entsiklopediya.
Glav.red. A.N.Bakulev. Chleny red.kollegiu N.N.Anichkov i dr. Izd. 2-ye.
Moskva, Gos. izd-vo med. lit-ry. Vol. 1. A - Angiofibroma. 1956.
1216 columns. --- [Phonograph record and three-dimensional color
spectacles] Grammofonnaia plastinka i ochki-svetofil'try,
(MEDICINE--DICTIONARIES)

NESTEROV, A.I.

NESTEROV, A.I., professor (Moskva)

Modern methods for treating rheumatic fever. Sov. med. 1955
15-25 D '55.

1. Deystvit'nyy chlen Akademii nauk SSSR
(RHEUMATIC FEVER)

NESTEROV, A.I..

Status and prospects of the solution of the problem of rheumatism
and of diseases of the joints. Vest. AMN SSSR no.3:3-21 '55.
(MLRA 8:11)

1. Vitse-president AMN SSSR.

(RHEUMATISM, prevention and control,
in Russia)

(JOINTS, diseases,
prev. & control in Russia)

NESTEROV, A.I.

[Clinical studies on characteristics of higher nervous activity in patients with the internal diseases; commencement address of November 23, 1953] Aktovaia rech' 23 Noiabria 1953 g.; opyt klinicheskogo izucheniiia osobennosti vyshei nervnoi deiatel'nosti u bol'nykh s zabolеваниiami vnutrennikh organov. Moskva, Medgiz, 1955. 37 p.

(MLRA 8:12)

(NERVOUS SYSTEM)

NESTEROV, A.I., professor (Moskva)

Activities of the Eighth International Congress on Rheumatism.
Klin. med. 32 no.10:9-18 0 '54. (MLRA 8:1)

1. Deystvitel'nyy chlen AMN SSSR
(RHEUMATISM,
cong.)

NESTEROV, A.I., professor; ASTAPENKO, M.G., kandidat meditsinskikh nauk
(Moskva)

Treatment of infectious polyarthritis with chrysanol associated
with physical methods. Terap. arkh. 26 no.3:46-53 My-Ja '54.
(MLRA 7:9)

1. Deystvitel'nyy chlen AMN SSSR. (for Nesterov)
(GOLD, therapeutic use,
*rheum. arthritis, with physical ther.)
(ARTHRITIS, RHEUMATOID, therapy,
*rheum. arthritis, with gold)
(PHYSICAL THERAPY, in various diseases,
*rheum. arthritis, with gold)

NESTEROV, A.I.

NESTEROV, A.I., professor

8th Session of the Academy of Medical Sciences of the U.S.S.R.
Terap.arkh. 26 no.1:19-31 Ja-F '54. (MLRA 7:5)

1. Deystvit'nyy chlen Akademii meditsinskikh nauk.
(MEDICINE,
in Russia, 8th session of Acad. of med. of USSR)
(SOCIETIES, MEDICAL,
Acad. of Med. of USSR, 8th session)

NESTEROV, A. I.

"USSR progress in the field of antibiotics during 1951-1953," Izdatel'stvo Meditsinskikh Nauk SSSR, No 1, pp 26-27, 1954. Moscow.

Academician-Sect acad Med Sci USSR.

SO: Excerpts-W-0876,

SIGIDIN, Ya.A.; NESTEROV, A.I., professor, deyствител'nyy chlen Akademii meditsinskikh nauk SSSR, direktor.

Promedol, an analgesic preparation. Sov.med. 17 no.10:25-27 0 '53.
(MLRA 6:10)

1. Fakul'tetskaya terapevticheskaya klinika II Moskovskogo meditsinskogo instituta im. I.V.Stalina. 2. Akademiya meditsinskikh nauk SSSR (for Nesterov).
(Anesthetics)

OBROSOV, A.N., professor; LIVENTSEV, N.M.; NESTEROV, A.I., deyствител'nyy chlen Akademii meditsinskikh nauk SSSR, zasluzhennyy deyatel' nauki, professor, direktor.

Soviet classification and nomenclature of electrotherapeutic measures and apparatus should be brought up to date. Sov.med. 17 no.5:35-37 My '53.
(MLRA 6:6)

1. Akademiya meditsinskikh nauk SSSR (for Nesterov). 2. Gosudarstvennyy institut fizioterapii. (Electrotherapeutics)

NESTEROV, A.I.; MYASNIKOV, A.L.

Decisions of the expanded session of the Presidium of the Academy of Medical Sciences of the U.S.S.R. with the participation of the Ryazan' Pavlov Medical Institute on the problem of "Experimental and Clinical Aspects of Sleep Therapy"; Ryazan', February 27-28, 1953. Vest. AMN SSSR no.2:56-58 '53. (MLRA 7:1)

1. Akademik-sekretar' Akademii meditsinskikh nauk SSSR (for Nesterov). 2. Akademik-sekretar' OKM Akademii meditsinskikh nauk SSSR (for Myasnikov). (Sleep)

NESTEROV, A.I., akademik-sekretar'.

Basis for a unified plan of research on medical problems for 1953. Vest.
AMN SSSR no.1:3-22 Ja-Mr '53. (MLR 6:7)

1. Akademiya meditsinskikh nauk SSSR.

(Medical research)

NESTEROV, A.I.

Theory of pathogenesis of rheumatism. Ter. arkh., Moskva 24 no. 6:
22-39 Nov-Dec 1952. (CLML 24:1)

1. Professor, Active Member of the Academy of Medical Sciences.

NESTEROV, A.I.

7th conference of the Academy of Medicine of USSR. Ter. arkh., Moskva
24 no.4:3-12 July-Aug 1952. (CIML 23:2)

1. Professor.

NESTEROV, A.I.

[Study of rheumatic fever and diseases of the joints] Ocherk
izuchenija revmatizma i bolezni sostavov. Mosvka, 1951.
(MIRA 13:?)
98 p.
(RHEUMATIC FEVER) (JOINTS--DISEASES)

APPROVED FOR RELEASE 12/02/11: CIA-RDP86-00513R001136700038-6

MURKIN, No. 1.

McLEOD, A. I. "The elementary principles underlying the formation of the crystalline state." *Trudy Kirovsk. gos. atmomash.*, 1950, No. 1, p. 1-12.

2001-00200, 1/2001, (Lithuanian Standard) Lithuanian, R., 1991.

AKHTYRTSEVA, N.; NESTEROV, A.

Selected lectures for correspondence school students. Vest. Mosk.
un. Ser. 5: Geog. 17 no.6:85-86 N-D '62. (MIRA 16:1)

1. Voronezhskiy universitet.

(Geography)

MAKSIMOV, S.Z.; NESTEROV, A.I.

Discussing K.I. Gerenchuk's book "Tectonic regularities in the orography and river network of the East European Plain." Izv. Vses. geog. ob-va 53 no.4:370-371 Jl - Ag '61. (MIRA 14:7)
(East European Plain--Mountains)
(East European Plain--Rivers)
(Gerenchuk, K.I.)

NESTEROV, A.I.

Comparative characteristics of water dividing landscape types
in the Central Black Earth Region and the Klinsko-Dmitrovskaya
Ridge. Izv.Vor.otd.Geog.ob-va no.3:61-71 '61. (MIRA 15:11)
(Central Black Earth Region--Physical geography)
(Klinsko-Dmitrovskaya Ridge--Physical geography)

NESTEROV, A.I., kand.med.nauk; KAMAYEVA, A.A.

Laboratory work on compiling food rations for man. Biol. v
shkole no.5:30-33 S-0 '62. (MIRA 16:2)

1. Mariyskiy pedagogicheskiy institut.
(Nutrition—Study and teaching)

NESTEROV, A.I., otv. red.; RUDNEV, G.P., red.; SEVERIN, S.Ye.,
red.; CHERKINSKIY, S.N., red.; SERGIYEV, P.G., red.

[Annotations of the scientific work of the Academy of Medical
Sciences of the U.S.S.R. for 1955] Annotatsii nauchnykh rabot
AMN SSSR za 1955 god. Red. A.I.Nesterov i dr. Moskva, Medgiz.
Book 1. 1956. 559 p. (MIRA 17:4)

1. Akademiya meditsinskikh nauk SSSR, Moscow. 2. Vitse-prezident i
deystvitel'nyy chlen AMN SSSR (for Nesterov).

BAKSHEYEV, I.I.; BEREZHNOK, S.P.; NESTEROV, A.G.; ZAMARATSKAYA, K.I.

Raw materials for hydrolysis plants as a second-class freight.
Gidroliz. i lesokhim. prom. 16 no.5:26-28 '63. (MIRA 17:2)

1. Vostochno-Sibirskiy nauchno-issledovatel'skiy i proyektnyy
institut lesnoy i derevoobrabatyvayushchey promyshlennosti.

L 31918-66
ACC NR: AY6007966

from a resin hardener in presence of 1.5% 1,1'-mihydroperoxydicyclohexyl peroxide, 14% peptizer, and glass fabric^{ASTT(b)C₂O}, using the contact method. The fiberglass prepared had qualities equivalent to fiberglass prepared from resins hardened in presence of cumene peroxide. Orig. art. has: 3 tables.

SUB CODE: 11,07/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 005

Cord 2/2

A 33916-06 271(m)/EMP(1)(1) IJP(c) W/RM
ACC NRT A16007966 (A) SOURCE CODE: UR/0191/66/000/003/0021/0023

AUTHOR: Tsvibina, Kh. V.; Nesterov, A. F.; Al'shits, I. M.; Antonovskiy, Yu. A.
Gord, N. M.

ORG: none

TITLE: Hardening of the unsaturated polyester resins in presence of cyclohexanone peroxides

SOURCE: Plasticheskaya promst. no. 3, 1966, 21-23

TOPIC TAGS: polyester plastic, hardening, cyclohexanone

ABSTRACT: The authors investigated the effect of 3 different cyclohexanone peroxides on the hardening of polyester resins. A 1-10% styrene solution of cobalt naphthenate was used as the peptizer. The activity of the initiator studied was decreasing in the order of peroxides of $1,1'$ -dihydroxy)cyclohexyl > 1-hydroxy- $1'$ -hydroperoxy)cyclohexyl > $1,1'$ -dihydroperoxy)cyclohexyl. The authors studied the conditions of hardening of the polyester resins in presence of $1,1'$ -dihydroperoxy)cyclohexyl peroxide. An increase of cobalt naphthenate from 1 to 5% accelerates gel formation and increased the hardness of molded resins. A further increase in the concentration of the peptizer gave the opposite effect. Increasing the concentration of the initiator accelerated gel formation. At > 1% of the initiator the resin became softer. A fiberglass was prepared

UDC: 678.674,4'0:678.028

Card 1/2

BRAYT, Petr Iosifovich; NESTEROV, A.F., Red.

[Surveying methods for measuring deformations of foundations and structures] Geodezicheskie metody izmerenija deformatsii osnovanii i sooruzhenii. Moskva, Nedra, 1965.
(MIRA 18:5)
297 p.

APPROVED FOR RELEASE: 12/02/11 CIA-RDP86-00513R001136700038-6

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700038-6

10/29/1969/10/29/1969

Mr. John M. McCarthy, Jr., Tel.

6

1. Chemical composition, polymers
2. Chemical composition, organic materials

3. Chemical composition, inorganic materials
4. Chemical composition, organic compounds

5. Chemical composition, inorganic compounds
6. Chemical composition, organic acids

7. Chemical composition, organic bases
8. Chemical composition, organic salts

9. Chemical composition, organic dyes
10. Chemical composition, organic pigments

GLOTOV, G.F.; BEZTSENNYY, I.Kh., prof., retsenzent; NESTEROV, A.F.,
dots., retsenzent; KOMIKAT'Yeva, T.A., red.

[Preliminary operations, planning and construction of
engineering installations] Izyskanie, proektirovanie i
stroitel'stvo inzhenernykh sooruzhenii. Moskva, Vyschais-
shkola. Sec.3. 1964. 197 p. (MKA 17:12)

L 18102-63

ACCESSION NR: AP3004596

assumed that the diffusion in the systems Mo-B, Mo-Si, and Mo-B-Si proceeds due to the inward penetration of the component gas atoms through the space lattice of the layers formed. The basic reaction-front in such systems is the intra-phasic boundary "case-metal." The comparison of the radii of Mo, B, and Si ($r_{Mo} = 1.40$; $r_B = 0.87$; $r_{Si} = 1.17 \text{ \AA}$ correspondingly) indicates the correctness of this hypothesis. Orig. art. has: 3 figures.

ASSOCIATION: Ural'skiy gosudarstvennyy universitet im. A. M. Gor'kogo (Ural State University)

SUBMITTED: 12Sep62

DATE ACQ: 27Aug63

ENCL: 00

SUB CODE: ML, PH

NO REF SOV: 022

OTHER: 009

Card 2/2

L 18102-63 EWP(q)/EWT(m)/BDS AFFTC/ASD S/0126/63/016/001/0086/0090
ACCESSION NR: AP3004596

61
60

AUTHORS: Konev, V. N.; Nesterov, A. F.; Glazkova, I. P.

TITLE: Study of the reaction diffusion in the systems "metal-gas mixture." 7.
Molybdenum - Silicon - Boron

SOURCE: Fizika metallov i metallovedeniye, v. 16, no. 1, 1963, 86-90

TOPIC TAGS: diffusion, ternary system, Mo-Si-B

ABSTRACT: Experimental results obtained in the investigation of the reaction diffusion in the system Mo-Si-B are discussed. The experiments were made at temperatures 800-1200C following the procedure described by A. F. Gerasimov, V. N. Konev, and N. P. Timofeyeva (FMM, 1961, 11, 596). It was established that a diffusive layer is formed in the system Mo-(B + Si) in the atmosphere $BCl_3 + SiCl_4 + H_2$. The layer consisted of phases with the structure Mo_2B_5 (to 1000C), and Mo_2B_5 with ∞ -MoB (above 1000C). Apparently silicon participated in this process (the diffusion of boron was slow and the activation energy of boron diffusion had a greater value than it would have in the absence of Si). It was

Card 1/2

ACCESSION NR: AT4013959

rates the previously published opinions of the authors. Orig. art. has: 2 figures
and 2 tables.

ASSOCIATION: Institut metallurgii AN SSSR (Institute of Metallurgy AN SSSR)

SUBMITTED: 00

DATE ACQ: 27Feb64

ENCL: 00

SUB CODE: MM

NO REF Sov: 011

OTHER: 002

ACCESSION NR: AT4013959

S/2659/63/010/000/0239/0246

AUTHOR: Arkharov, V. I.; Konev, V. N.; Nesterov, A. F.; Andrianovskiy, B. P.;
Glazkova, I. P.

TITLE: Investigation of metal oxidation in sulfur-saturated air

SOURCE: AN SSSR. Institut metallurgii. Issledovaniya po zharoprovodnym splavam,
v. 10, 1963, 239-246

TOPIC TAGS: oxidation, sulfur, titanium chromium, maganese, cobalt iron, nickel,
metal oxidation, transition element

ABSTRACT: The presence of sulfur in the air frequently leads to acceleration of
the oxidation rate, and sometimes to dangerous accidents. The present paper de-
scribes the results of investigating the oxidation of Ti, Cr, Mn, Co, Fe and Ni in
air containing two chemically active components: oxygen and sulfur. For this
group of metals the importance of sulfur in oxidation increases from titanium to
nickel. This is explained by the fact that the sulfur activity rises and the oxy-
gen activity drops. The percentage of sulfur in the oxidation scale increases
from 0.004% for titanium to complete sulfuration of all the nickel under the layer
of NiO. This explains the brittleness of nickel during heat treatment in sulfur-
containing media. The process of metal oxidation in sulfur-oxygen media corroborates
Card 1/2

80891

S/126/60/009/06/019/025

Distribution of the Nonuniformities of Plastic Deformation. IV.
E073/E325
Orientated Work-hardening and its Dependence on the Deformation
Temperature

the average intensity of the orientated work-hardening will increase slightly and the maximum possible intensity of the orientated work-hardening increases intensively up to 200°C and then decreases. The graphs, Figures 1-3, show the test results obtained on specimens deformed at room temperature; the graphs, Figure 4, give the test results obtained at more elevated temperatures. The low maximum intensity at room temperature is attributed to an elastic reversal of the deformation, which ceases progressively with increasing temperature. At elevated temperatures, the maximum intensity of the orientated work-hardening decreases and this is attributed to an increase in the effect of the thermal softening. There are 4 figures and 3 Soviet references.

ASSOCIATION: Ural'skiy gosudarstvennyy universitet imeni A.M. Gor'kogo (Ural State University imeni A.M. Gor'kiy) ✓

SUBMITTED: January 8, 1960

Card 3/3

80891

S/126/60/009/06/019/025

E073/E335

Distribution of the Nonuniformities of Plastic Deformation. IV.
Orientated Work-hardening and its Dependence on the Deformation
Temperature

work-hardening on the frequency, amplitude and temperature of deformation. The experiments were carried out on copper polycrystalline specimens, consisting of hollow cylinders of 6 mm external and 4 mm internal diameter, 100 mm long. It was experimentally established that the orientated work-hardening manifests itself most strongly in the initial stage of alternating torsion. With increasing deformation amplitude the limit value of the nonreversible deformation increases and so does the average intensity of the orientated work-hardening. At amplitudes of 0.1 g and higher the increase of both magnitudes stops. The maximum possible intensity of increase of the nonreversible deformation for each cycle increases to 20% with increasing amplitude and then decreases. An increase of the frequency of the cycles brings about a decrease in the intensity of the orientated work-hardening. With increasing deformation temperature, the magnitude of the residual deformation does not change.

Card2/3

W

18.8200

AUTHORS: Rybalko, F.P., Nesterov, A.F. and Rybalko, B.F.

E073/E325
S/126/60/009/06/019/025

TITLE: Distribution of the Nonuniformities of Plastic Deformation
IV. Orientated Work-hardening and its Dependence on the
Deformation Temperature

PERIODICAL: Fizika metallov i metallovedeniye, 1960, Vol 9, Nr 6,
pp 927 - 931 (USSR)

ABSTRACT: In studying the distribution of the deformation along
the length of a specimen subjected to cyclic alternating
torsion, it was established (Refs 1,2) that in the case
of torsion of tubular single and polycrystalline
specimens the plastic deformation is nonuniformly distributed;
a part of the sections become more intensively deformed
for deformation in one direction, whilst other parts
become more intensively deformed if the deformation is
in the other direction. In changing the sign of the
deformation, the magnitude of the nonreversible deformation
depends on the effect of the orientated work-hardening,
which should decrease with increasing deformation temperature.
The aim of the work described in this paper was to investi-
gate in greater detail the dependence of the directional

Card1/3

4

Nesterov, A.F., kand.tekhn.nauk

Safest method of finding the extension of a rectilinear structure.
Trudy MIIGAIK no.32:3-7 '58. (MIRA 12:7)

1. Kafedra geodezii Moskovskogo instituta inzhenerov geodezii,
aerofotos'zemki i kartografii.
(Surveying--Industrial applications)

NESTEROV, A. F.

NESTEROV, A. F. -- "High-precision Geodetic Control of the Adjustment of the Guides of the ChS-500 Conveyor." [Kiev Inst. of Radioelectronics Academy, Aerial Photography and Cartography. Kiev, 1976. (Dissertation for the Degree of Candidate in Technical Sciences.)]

SOURCE: Kudzhaeva Latvija 'lo / 1976

NESTEROV, A. D., elektromekhanik

Arrangement for cutting the wires of an overhead line. Avtom.,
telem. i svias' 7 no.4:36 Ap '63. (MIRA 16:4)

1. Balashovskaya distantsiya signalizatsii i svyazi Privolzhskoy
dorogi.

(Electric lines---Overhead)

NIKOLAYEVA, M.M.; LOZOVSKAYA, V.P.; TOKIN, A.N.; SHIRYAYEV, V.P.;
IZOSIMOV, L.I.; NESTEROV, A.D., elektromekhanik

From the editor's mail. Avtom., telem.i sviaz' 7 no. 3:44 Mr
'63.

1. Starshiye elektromekhaniki stantsii Leningrad-Passazhirskiy Moskovskoy distantsii signalizatsii i svyazi Oktyabr'skoy dorogi (for Nikolayeva, Lozovskaya, Tokin, Shirayev).
 2. Starshiy elektromekhanik Stryyskoy distantsii signalizatsii i svyazi Lvovskoy dorogi (for Izosimov).
 3. Balashovskaya distantsiya signalizatsii i svyazi Privolzhskoy dorogi (for Nesterov).
- (Railroads--Signaling--Centralized traffic control)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700038-6

ALEKSANDROV, V.M. (Novosibirsk); NESTEROV, A.A. (Novosibirsk)

Optimum processes in linear measuring systems. Avtometria no.2
77-83 '65.

L 2177-66
ACCESSION NR: AP5021071

and $u(u_1, \dots, u_r)$ control can also be extended to higher order systems without any new essential difficulties. Orig. art. has: 14 formulas and 4 figures.

ASSOCIATION: Institut avtomatiki i elektrometrii Sibirskego otdeleniya AN SSSR,
Novosibirsk (Institute of Automation and Electrometry, Siberian Branch, AN SSSR)

SUBMITTED: 13Jul64 ⁴⁴ ENCL: 00 SUB CODE: IE
NO REF Sov: 003 OTHER: 001

Card 2/2

L 2177-66 EWT(d)/EPF(n)-2/EWP(v)/EWP(k)/EWP(h)/EWP(I) IJP(c) WW/BC
ACCESSION NR: AP5021071 UR/0288/65/000/002/0013/0021
62-50

48

46

B

AUTHOR: Aleksandrov, V. M.; Nesterov, A. A.

TITLE: Optimum system with controlled structure

SOURCE: AN SSSR. Sibirsckoye otdeleniye. Izvestiya. Seriya tekhnicheskikh nauk,
no. 2, 1965, 13-21

TOPIC TAGS: algorithm, optimal automatic control, optimal control, automatic
control theory, control system stability

9.44

14

ABSTRACT: The present paper establishes an algorithm of the simultaneous changes
in the structure of a system and the parameters u_1 securing a minimum transient
process time. It also investigates such newly discovered properties of these
controlled systems as the possibility of control of unstable and previously un-
controllable systems, and the possible reduction in effects due to the spontaneous
changes in system parameters equivalent to the adaptation effect. Test calcula-
tions leading to the above conclusions have been carried out on electronic com-
puters. The new method outlined for the synthesis of optimum (in time) structure

Card 1/2

L 29959-66 EWT(1)/EWT(m)/T/EWP(t)/ETI LJP(c) AT/JD
ACC NR: AP6012492 SOURCE CODE: UR/0181/66/008/004/1246/1249

AUTHORS: Geytsi, I. I.; Nesterov, A. A.; Barinova, E. Yu.; Smirnov, L. S.

ORG: Institute of Semiconductors, SO AN SSSR, Novosibirsk (Institut poluprovodnikov SO AN SSSR) 73
B

TITLE: Temperature dependence of the average ionization energy in germanium and silicon 21 27

SOURCE: Fizika tverdogo tela, v. 8, no. 4, 1966, 1246-1249

TOPIC TAGS: germanium, silicon, ionization, temperature dependence, electron bombardment, x ray irradiation, photoelectric property, physical diffusion, minority carrier, forbidden band, GERMANIUM SEMICONDUCTOR, SILICON SEMICONDUCTOR

ABSTRACT: To obtain additional data on ionization occurring in semiconductors irradiated with electrons and x rays, the authors measured the temperature dependence of the average ionization in Ge and Si. The relative change of the ionization energy with temperature was determined by two procedures. X rays were used for uniform generation of carriers in the volume of the semiconductor and to avoid the influence of irradiation on its surface properties. The x rays range in energy from 30 to 50 kev. The x ray pulses ranged in duration from 10 to 500 μ sec, with

ACC NR: AP6024375

where A and B are the matrices of the dimensions $n \times n$ and $n \times r$, respectively. In this connection, the authors examine the problems of the synthesis of an optimally-rapid acting control with respect to both the parameters u_i and the coefficients $a_{ij}(t)$ of the matrix A(t) for a second-order nonlinear dynamic system with two controlling parameters, u and Δa and one controlled coefficient a in the presence of the first derivative of the equation of motion, on the basis of the realization of switching lines on the phase plane $x_1 x_2$. The pattern of variation of the controlling parameter is determined with the aid of Pontryagin's maximum principle (Pontryagin, L. S., et al. Matematicheskaya teoriya optimal'nykh protsessov. Fizmatgiz, 1961). The time of the transient process is minimized. It is shown that the introduction of dual control reduces the time of the transient process, expands the zone of controllability and reduces the effect of spontaneous variations of the system's parameters on the pattern of the transient process. For a sufficiently high Δa and for $c < 0$ the roots of the characteristic equation of the system always become real and negative, which simplifies the switching lines. Orig. art. has: 4 figures, 19 formulas.

SUB CODE: 12, 09/ SUEM DATE: 21May64/ ORIG REF: 006/OTH REF: 001

Card 2/2

ACC NR: AP6024375

SOURCE CODE: UR/0280/66/000/002/0166/0173

AUTHOR: Aleksandrov, V. M. (Novosibirsk); Nesterov, A. A. (Novosibirsk)

ORG: none

TITLE: An optimal system with controlled feedback

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 2, 1966, 166-172

TOPIC TAGS: optimal control, differential equation, dynamic system, nonlinear automatic control

ABSTRACT: In optimal control theory the parameter $U(u_1, \dots, u_r)$ on which is imposed the natural constraint

$$|u_i| \leq M,$$

is usually regarded as the controlling parameter in the synthesis of optimal control according to a given quality criterion Q for systems described in vector form by the differential equation

$$\frac{dX}{dt} = A(t) X + B U(t) \quad (1)$$

Card 1/2

L 38139-62 FWT(j)/EMT(v)/EMT(k)/EMT(n)/EMT(l) 80
ACC NR: AP6015237 (N) SOURCE CODE: UR/0410/65/000/002/0077/0083

AUTHOR: Aleksandrov, V. M. (Novosibirsk); Nesterov, A. A. (Novosibirsk)

ORG: none

TITLE: Optimal processes in linear measuring systems

SOURCE: Avtometriya, no. 2, 1965, 77-83

TOPIC TAGS: time optimal control, measuring apparatus

ABSTRACT: Optimal high speed processes in linear measuring systems are examined on the basis of the control of the measuring device and the shape of the input variable. An algorithm for the transformation of the measured signal is developed and the variation of the logic of the measuring system in transient response is described mathematically. It appears that the switching moments of the controlling variables and the transient period do not depend on the value of the measured variable, thus facilitating a reasonably simple design solution. The static accuracy of the system and its dynamic indexes can be differentiated with the framework of the transient response. Orig. art. has: 4 figures, 10 formulas.

SUB CODE: 14,09/ SUBM DATE: 120ct64/ ORIG REF: 004

UDC: 62-505

Card 1/1 MLC

ALEKSANDROV, V.M.; NESTEROV, A.A.

Optimal system with a controlled structure. Izv. SO AM SSSR
no.6. Ser. tekhn. nauk no.2:13-21 '65. (MIRA 18:11)

1. Institut avtomatiki i elektrometrii Sibirskogo otdeleniya
AN SSSR, Novosibirsk.

KOCHUROV, A.S.; NAZAROV, A.G.; ZASYPKIN, A.G.; GIMMEL'MAN, N.R.
[deceased]; VOLEGOV, A.F.; NESTEROV, A.A.; FILIPPOV, A.S.,
kand. tekhn. nauk, retsenzent; RYAZANOV, K.I., inzh.,
retsenzent; ZAKHAROV, B.P., inzh., nauchn. red.; YERMAKOV,
N.P., tekhn. red.

[Handbook for mold makers] Spravochnik rabochego-model'shchika. Izd.2., perer. i dop. Moskva, Mashgiz, 1963.
360 p. (MIRA 17:2)